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Wisconsin
Department of Commerce

SAFETY AND BUILDINGS DIVISION
Plumbing Product Review
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TTY: Contact Through Relay

Jim Doyle, Governor
Richard J. Leinenkugel, Secretary

November 18, 2008

HURON VALLEY SALES
TOM GIBNEY
151 S INDUSTRIAL DR
SALINE MI 48176

Re: Description: GRAYWATER REUSE SYSTEM
Manufacturer: HURON VALLEY SALES
Product Name: PROPAK WATER TREATMENT TECHNOLOGY
Model Number(s): BIO-1,200, BIO-2,400, BIO-3,600, BIO-4,000, BIO-4,800, BIO-6,000 AND BIO-10,000
Product File No: 20080118

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of November 2013.

This approval is contingent upon compliance with the following stipulation(s):

- A plumbing plan must be submitted and approved prior to each proposed installation in accordance with Comm 82.20 (1) (a) 2. A Plumbing Plan Review must be successfully completed prior to each proposed installation. A minimum of four sets of completed plans and specifications, signed by a Wisconsin registered Architect, Designer, Engineer or licensed Master Plumber shall be submitted along with the following specific information:

  a. A "Plumbing Plan Review Application" (i.e. SBD-6154) and required fee;
  b. A scaled plot plan;
  c. A scaled floor plan;
  d. A drain, waste and vent system (i.e. DWV) isometric drawing for the engineered blackwater/graywater system;
  e. A non-potable water system isometric drawing;
  f. A potable water system isometric drawing;
  g. A maintenance manual addressing all serviceable components or systems;
  h. A written contingency plan; and
  i. Water calculation worksheets:

     1. The complete non-potable water system; and
     2. The complete potable water system

  j. A copy of this approval letter

  For system installations that include irrigation and/or infiltration, the following information must also be provided:

  k. The soil type; and
  l. Infiltration rate

  After the plan review process is complete, and the installation is finished, the State Plumbing Consultant assigned to the county in which the installation is located, shall inspect the completed installation. The final installation shall be completed and passed before the system is put into service. Some of the information listed previously may not pertain to a specific installation.

- Monitoring of these systems shall be performed by licensed POWTS Maintainers, Master Plumbers or licensed professional Engineers. The maintenance of these systems may be performed by an unlicensed individual.

- Any initial start-up water, or make-up water, added to these systems must be supplied from a NR 811 or NR 812 approved source.

- Any wastewater or waste materials (e.g. sludge, scum) withdrawn from these systems must be disposed of in accordance with NR 113.

- Installation and servicing of these systems must be performed in accordance with the manufacturer's written instructions and this approval letter. A copy of the manufacturer's installation and servicing instructions, and a copy of this approval letter, must be given to the owner of each system and kept on site.

- The pressure loss for any single mechanical filtration device shall not exceed 15 psig over and above the pressure loss of the mechanical filtration device when initially backwashed and settled. If the pressure loss exceeds 15 psig, then the mechanical filtration devices must be backwashed, serviced or replaced.

  Each individual pressure vessel installed in series or parallel is considered a separate and distinct mechanical filtration device.

- The final effluent, collected from at or near the suction basket of the final interceptor/separator/sump, shall be sampled semiannually for the following water quality parameters:

  1. pH;

  2. 5-Day biological oxygen demand (BOD5);

  3. total suspended Solids (TSS);

  4. fecal coliform

  The results of these semiannual test shall be submitted as directed by the reviewer of the site specific plan.

- All sumps, and their associated ejectors and pumps, shall conform to s. Comm 82.30 (10).

- The trench drain leading to the catch basin shall conform to s. Comm 82.34(4).

- This device must display a permanent label or data plate that displays the manufacturers name and address, and the model number of this device.

- One R-Can Environmental model SPV-20 UV disinfection system shall be used with each of the BIO-1,200, BIO-2,400, BIO-3,00, BIO-4,000 AND BIO-4,800 models of Propak graywater reuse systems.

  Two R-Can Environmental model SPV-20 UV disinfection systems shall be used with each of the BIO-6,000 AND BIO-10,00 models of Propak graywater reuse systems.

  The R-Can Environmental UV disinfection systems shall remain energized at all times when the graywater reuse systems are operating. Use of the UV disinfection systems, as specified above, is not optional. The UV systems specified above must be installed and maintained as described in the UV device manufacturers (i.e. R-Can Environmental Inc.) published installation and operation instructions.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Glen W. Schlueter
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Safety and Buildings Division
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